

GREEN RIVER BASIN PROGRAM

I 9 9 8 A N N U A L R E P O R T

September 1999



Green River Basin Program

Serving Auburn, Kent, Renton, Tukwila and King County

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INTRODUCTION AND BACKGROUND

The purpose of this annual report is to provide an accounting of 1998 Green River Flood Control Zone District (District) financial activity. An annual reporting of District revenues and expenditures is required per Section 2.1.4 of the Green River Basin Program Interlocal Agreement (ILA), adopted on June 30, 1992 by King County and the Green River Valley cities of Auburn, Kent, Renton and Tukwila. The report also provides a summary of the major repairs made to the District's flood protection facilities on the Green River in 1998.

In 1978, King County and the Green River Valley cities signed an interlocal agreement to form the Green River Basin Program (GRBP), an interjurisdictional flood control and drainage program for the lower Green River Basin. The 1992 ILA supports the continuation of the Green River Basin Program and has a ten-year duration.

Prior to 1991, the Green River Basin Program was funded by a cost-share arrangement between King County and the Green River cities. The Green River Basin Program is now funded by the District.

GREEN RIVER FLOOD CONTROL ZONE DISTRICT

The Green River Flood Control Zone District was formed in 1966 and activated in December 1990. The purpose of the District is to provide a funding base for operation and maintenance of levees, revetments and pump stations on the Green River and to fund administration of the Green River Basin Program.

The District encompasses areas within seven cities, five Metropolitan King County Council Districts, four State legislative districts, three Congressional districts and portions of unincorporated King County. A map of the District is shown on page 3 of this report.

In accordance with state law regarding special purpose districts, the Green River Flood Control Zone District is a quasi-municipal corporation, legally separate from King County. However, the Metropolitan King County Council acts as the District's Board of Supervisors.

Overview of 1998 Flood Events

The Green River experienced dangerous high flows during only one flood event in 1998. Heavy rainfall and warm temperatures between December 28-30, 1998 caused moderate flooding in the Green River Valley. The peak flow at Auburn reached approximately 9600 cfs on December 30th, which exceeded the threshold for a Phase III flood. The King County Flood Warning Center was opened and patrol crews were sent out to inspect river facilities. A river bank slump was discovered on the shoulder of Frager Road. Road crews were put on alert and surveys were started to design a repair.





1998 ACCOMPLISHMENTS

Green River Basin Program and Green River Flood Control Zone District work program accomplishments included:

- Continued coordinating response to two federally declared flood disasters (November of 1995, and February of 1996).
- Implementation of the Flood Response Manual and Post-Flood Recovery Plan, including enhanced coordination with the Green River cities to share flow information during flood events and participation in preliminary and formal damage assessments.
- Completion of annual Green River maintenance assessments and development of a high priority maintenance project list with involvement of the Green River Basin Technical Committee (BTC).
- Completed Facility Repairs (see pages 10 through 16).
- Worked with King County's applicant agent (KC Office of Emergency Management) to track project costs and provide documentation for federal flood disaster fund reimbursement.
- Proposed and gained approval for Federal Emergency Management Agency (FEMA) alternative projects to purchase floodplain lands and flood management equipment.
- Produced Annual Reports for Army Corps of Engineers 205 program.
- Tracked results from smolt counter at the Black River pump station in cooperation with the cities of Kent and Renton.
- Completion of the 1997 Annual Report.
- Ongoing development, monitoring, and tracking of budget for GRBP and District.
- Ongoing coordination of BTC meetings.
- Provided administrative and technical assistance to the development of the WRIA9 Steering Committee and Technical Work Group.
- Ongoing participation with WRIA9 Salmon Conservation Planning efforts and representation of Green River Flood Management issues in this process.
- Coordination of planning activities and meetings with the Green/Duwamish Watershed Forum.
- Performed lead agency administrative functions and implemented 1st phase of \$275,000 Community Development Block Grant contract agreement for Desimone levee repair work in the City of Tukwila.
- Coordinated project review with recreational boater safety interests.
- Participated on an interagency Levee Vegetation Management Committee that has been established to pursue a regional variance from the Army Corps of Engineers for PL 84-99 standards for levee vegetation.
- Prepared jeopardy assessment and Endangered Species Act (ESA) review of proposed 1998 projects and cooperated with King County Biological Review Panel in their evaluation of these projects.

Map 1 GREEN RIVER FLOOD CONTROL ZONE DISTRICT



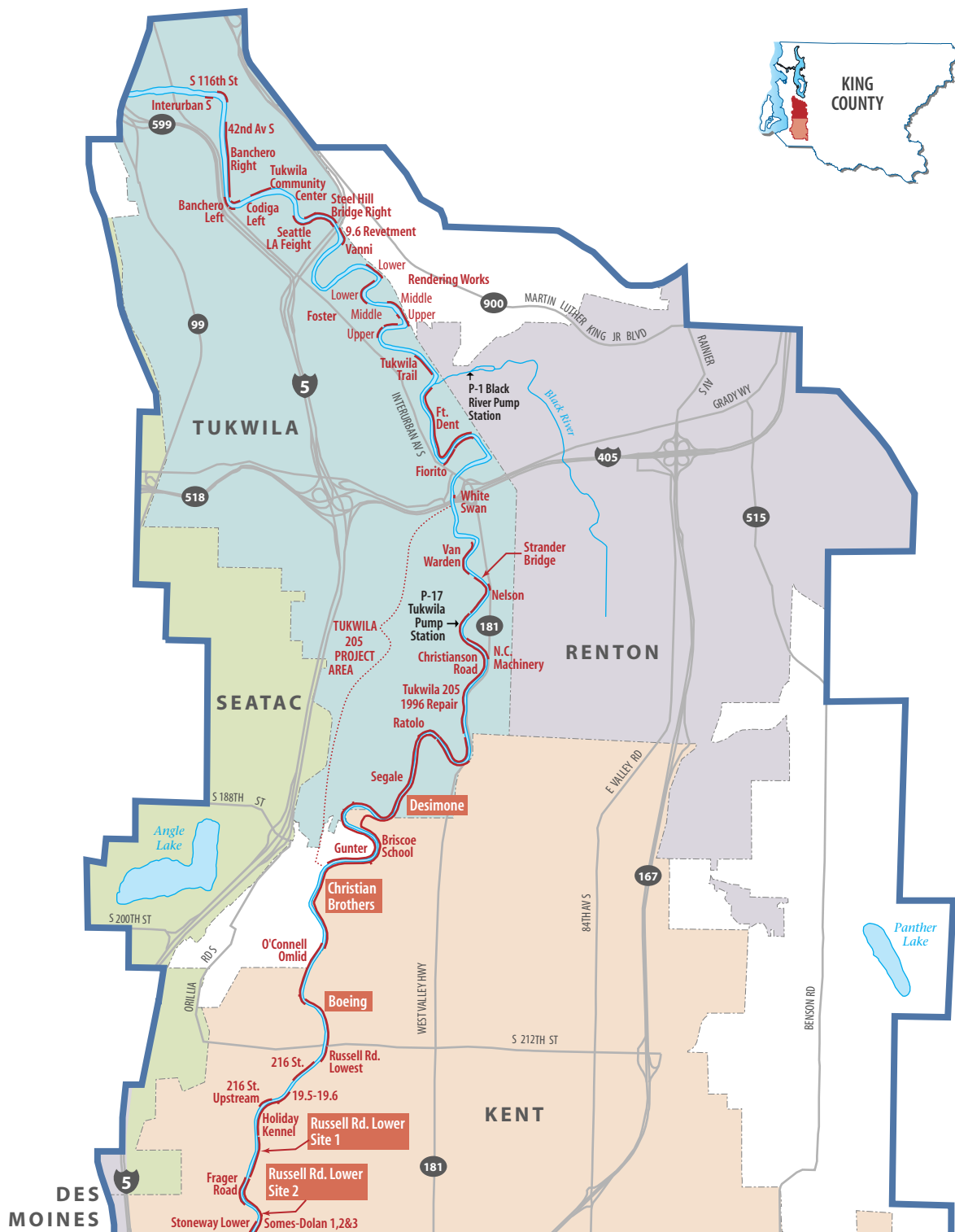
Map 2 Detail

Map 3 Detail



0 1 2 Miles
August 1999

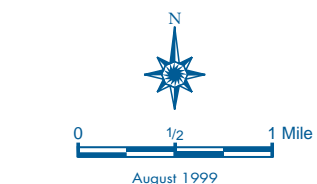




Map 2

GREEN RIVER FLOOD CONTROL ZONE DISTRICT (FCZD) North Portion

- 1998 Projects
- Levee/Revetment
- Lake/River
- Stream
- Major Road

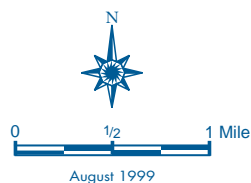




Map 3
GREEN RIVER FLOOD
CONTROL ZONE DISTRICT (FCZD)
South Portion



- 1998 Projects
- Levee/Revetment
- Lake/River
- Stream
- Major Road



Map produced by:
 Visual Communication & GIS Unit
 Public Outreach Section
 9809FCZDzoomMAP3 WG,SK

1998 BUDGET

The 1998 Green River Flood Control Zone District budget was approved in Resolution GR20, adopted by the Metropolitan King County Council on January 12, 1998. The Metropolitan King County Council serves as the District's Board of Supervisors.

Per the resolution, the District budget was broken down as follows:

District Administration:	\$122,708
District Maintenance:	\$450,943
Reserve (Fund Balance):	11,077
Designated Fund Balance:	
• Local Flood Match Funds:	11,000
• Pump Plant Equipment Repair/Replacement:	39,300
Total:	\$635,028

In addition, \$100,000 from the fund balance was budgeted to supplement programmatic and flood damage repair work. In actuality these funds were not required due to considerable contributions from other financial supporters. FEMA revenue not recognized in prior year was received totaling \$223,747 in unanticipated revenue.

Ad Valorem Tax Levy

The District is funded by an ad valorem tax levy on all properties within its boundaries. The District levy rate in 1998 was 0.05036, or 5.036 cents per \$1,000 of assessed valuation. The owner of a \$100,000 home in the District paid approximately \$5.04 to the District levy.

Actual 1998 District collections totaled \$626,769. The difference between projected and actual collections is due to various factors which affect general property tax collections (e.g., assessed property value fluctuations, delinquencies, new construction).

For a description of actual 1998 expenditures see page 17.





1998 MAINTENANCE PROJECTS

The total cost for maintenance projects in 1998 was \$1,070,416. The District contributed approximately \$176,781 to 1998 maintenance projects. The remaining funds were contributed by federal and state grants, and cost sharing contributions from the District cities. Requests for additional funding from state and federal disaster funds were submitted for several projects that exceeded estimated costs.

1998 MAINTENANCE PROJECTS AND LEVERAGED FUNDS

PROJECT	TOTAL COST	OTHER REVENUE	GRFCZD FUNDS
Desimone	\$130,471	\$102,076	\$28,394
Christian Brothers	\$243,459	\$122,500	\$120,959
Boeing 17.67	\$104,946	\$91,475	\$13,471
Russell Road Lower	\$273,624	\$231,687	\$41,937
Russell Road Upper	\$236,572	\$79,151	\$157,421
Other Projects	\$81,344		\$81,344
FEMA Reimb for prev year repairs		\$266,745	(\$266,745)
TOTAL	\$1,070,416	\$893,634	\$176,781
The District performed \$1,070,416 worth of repairs at a cost of \$176,781 to the District. Funds were leveraged from other supporting agencies such as FEMA (State and Federal), DOE FCAAP Grant, Army Corps of Engineers, and local Cities.			

FOR ALL THE 1998 PROJECTS:

Projects were reviewed for jeopardy to chinook salmon as a result of the pending National Marine Fisheries Service's listing of chinook as threatened under the Endangered Species Act. The review was conducted by the King County Biological Review Panel. Hydraulic Project Approval (HPA) for each project was obtained from the Washington Department of Fish and Wildlife. Shoreline management requirements were addressed with the local jurisdiction. The location, orientation, and placement of the logs were reviewed with the newly constituted Boater Safety Advisory Committee.

A brief description of each repair project is provided on the following 6 pages.

Desimone Levee Repair
River Mile: 14.45 Right Bank
Cost: \$130,470

Four separate sections of the Desimone Levee protecting the Southcenter South Business District along the Right Bank of the Green River in Tukwila were oversteepened, undercut by erosion and exhibiting slumping failures. These conditions were revealed in field surveys following flooding events experienced in 1995, 1996, and 1997. Based on consultations with the City of Tukwila engineering staff, a continuous reach of roughly 1,200 feet in length was identified as the highest priority site area for repairs.

On behalf of the District, Tukwila applied for a Community Development Block Grant of \$275,000 to assist with funding the repairs in this reach. Grant funds were secured with \$25,000 in matching funds provided by the District.

Geotechnical consulting studies recommended modifications to the overall slope angles and a setback of the existing levee fill prism to a slope of 2 horizontal feet to every vertical foot (2H:1V). Existing, historic easements allowed for relocation of the existing levee to the setback location. Extensive negotiations with property owners were required to reconcile development plans for warehouse construction with the new, setback levee alignment. Coordination of changes to the warehouse site design and recreational trail were also required within the City of Tukwila's permitting system.

Permits were granted for construction of a 700 foot-long portion of the setback levee. Project construction was a model of cooperation between the developers of the warehouse and the District, with King County Roads Crews. Work was completed for this portion of the project construction in October and November 1998. The next phase of construction will occur at this site in 1999.



Desimone Before



Desimone During



Desimone Near Completion



Christian Brothers Revetment looking downstream (aspect=south)



Material was removed to create a mid-slope bench

Christian Brothers' Revetment Repair River Mile: 17.15 Right Bank Cost: \$243,459

Approximately 600 linear feet along the Right Bank of the Green River immediately upstream of South 200th Street and adjoining Russell Road in Kent were identified as having experienced significant erosion damage, undercutting, and oversteepening of the embankment slopes following flooding in 1995 and 1996. A preliminary allowance of up to \$96,042 in flood damage repair funds from the Federal Emergency Management Agency was increased to \$206,500 following completion of detailed project designs.

Based on geotechnical consulting studies prepared for several similar sites within the District, the plans called for a significant regrading and flattening of the damaged slopes wherever possible. This required the relocation of the existing recreational trail and portions of Russell Road. The project design relied heavily on the utilization of additional Right-of-Way purchased by the City of Kent, as part of the 200th Street Bridge project. Close coordination with the City of Kent and a reconciliation of the two project designs was accomplished.

The project was completed in two parts. First the setback portions were constructed through excavation of mid-slope benches with conventional track-mounted hydraulic excavators. The second portion involved a general regrading of the remaining lower embankment slopes with use of a large dragline. Both portions of the project included installation of a number of rock-ballasted in-water trenches within the lower bankline. These toe trenches were designed to protect against future erosion and to anchor a series of large logs with rootwads near the bank, roughly parallel with the current. This log placement was done to meet State Fisheries requirements and interests of the newly formed Boater Safety Advisory Committee. Construction was completed during September and October of 1998.



Project after completion

**Boeing 17.62 Revetment
Repair
River Mile: 17.62 Right Bank
Cost: \$104,946**

The Boeing 17.62 Revetment Repair was constructed to stabilize slopes which failed during the winter of 1995 and 1996. Approximately 90 linear feet of riverbank adjoining Russell Road along the Right Bank of the Green River just downstream of South 212th Street in Kent slumped into the river as a result of the flooding. The slump extended in a semicircular arc, involving up to 30 feet of the embankment soils. The slump was a result of extreme soil saturation during prolonged high river flows, followed by relatively rapid drawdown of the river due to curtailment of flows released from the Corps Howard A. Hanson Dam. This drawdown failure was accentuated by the presence of less permeable silty clay layers at the elevation of the Ordinary High Water Mark (OHWM), underlying the upper riverbank sand deposits, together with springs present along the riverbank in this reach.

Construction involved excavation of the failed slope materials and reconstruction of a large rock toe buttress below the OHWM for the full length of the project. The repair was designed to closely follow the natural setback carved into the embankment by the failure escarpment. Large logs with exposed rootwads were set into the toe buttress and anchored with the placement of large quarry rock to create a series of flow deflectors along the river's edge.

A series of willow layers was placed in topsoil between lifts of structural fill wrapped with biodegradable coir fabric for erosion protection, extending from the OHWM up to the regraded lip of the slump escarpment. The site was planted with additional native riparian tree and shrub species, and all disturbed soils were hydroseeded for erosion control. Work was completed in mid-September 1998.



Rebuilding the slope on top of coir wrap layers



Construction completed



Russell Road Lower Revetment Repair River Mile: 18.9 to 19.3 Right Bank Cost: \$273,624

Three distinct locations along the Right Bank of the Green River adjoining Russell Road in Kent experienced erosion, undercutting, oversteepening, and bank sloughing following flood events in 1995 and 1996. Damage Summary Reports completed by the Federal Emergency Management Agency authorized \$231,687 in federal flood assistance funding for repairs to these reaches, totalling approximately 1,300 linear feet.

Based on geotechnical consulting studies which established appropriate factors of safety for slope stability, the repair designs were done with an overall slope angle targeted at two horizontal feet to every one vertical foot (2H:1V). The slope angles were further modified to include a midslope bench. This bench enhanced overall slope stability and provided a point of access for excavator equipment to accomplish instream toe buttress repairs.

(continued on page 15)

SITE 1



Measuring for toe depth



Placing rock

SITE 2



Mid-slope bench with open trench



Logs were chained to ecoblocks in facility toe

Russell Road Lower Revetment Repair (continued)

Instream repairs consisted of a series of rock-ballasted trenches excavated into the bankline to resist further erosive encroachment of the river channel into the road shoulder embankment. The toe trenches also served as a means to anchor a series of large logs with rootwads into the nearshore water column.

Additional logs were placed, anchored with large link chain, approximately parallel to the bankline, overlapping the rootwads in a downstream direction. The logs serve as hydraulic deflectors, directing erosive flows away from the embankment and creating lower velocities along the toe of the facility. The logs also serve as habitat restoration elements, as required by the conditions of State Fisheries permits. Following final grading of the excavated midslope bench, the site was hydroseeded and covered with coir fabric for erosion protection, and planted with native riparian tree and shrub species for additional slope stabilization and habitat restoration purposes. Work was coordinated with the City of Kent, and construction completed during September and October of 1998.

SITE 3



Completed facility repair





Russell Road Upper Revetment Repair River Mile: 20.4 Right Bank Cost: \$236,571

Flooding in 1995 and 1996 resulted in erosion and oversteepening of lower embankment slopes along several hundred feet of a tight bend on the Right Bank of the Green River (in the area adjoining Russell Road at James Street in Kent). The Federal Emergency Management Agency completed a Damage Survey Report authorizing \$79,160 in federal funding for the needed repairs.

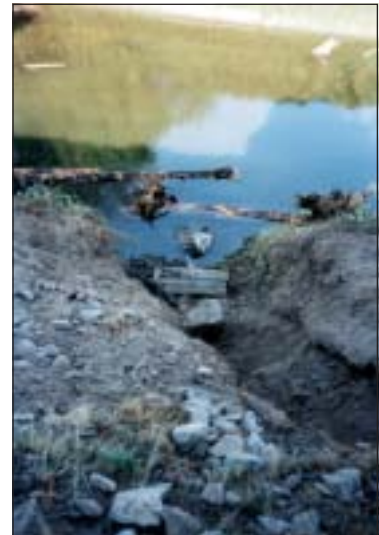
Due to the presence of the Russell Road Right-of-Way and the City of Kent's paved recreational trail, it was not possible to stabilize the embankment through excavation of gentler slope angles. Site surveys revealed that the most stable angles possible within these constraints were approximately 1.75 horizontal feet to every one vertical foot (1.75H:1V). Due to the vertical height of the bank and the limited funding, a dragline crane was used to perform the earthmoving and toe buttress construction.

Toe buttress work was limited to a series of rock-ballasted trenches dug into the base of the slope to prevent further encroachment of erosive flows into the toe of the embankment. The trenches also served to anchor a series of large logs with rootwads roughly parallel to the bank with each log overlapping the next rootwad downstream. These logs deflect higher velocity flows away from the toe of the facility, and also serve as instream habitat restoration elements in the design.

Construction was coordinated with the City of Kent to ensure traffic flagging and trail safety during construction. Work was completed during September and October of 1998.



A dragline was used to reach the toe



Logs were chained to ecoblocks set in the toe



Project completed

1998 YEAR-END REVENUE AND EXPENDITURE REPORT

1998 Revenue

District tax levy collections in 1998 totaled \$626,769. In addition, net interest income was \$49,773. Interest income is retained in the District fund balance.

1998 Expenditures

District Expenditures are divided into two separate categories: (1) administration, and (2) maintenance. The combined District administration and maintenance budget for 1998 was \$673,651. This includes \$573,651 from the 1998 levy funds and \$100,000 from the District's fund balance. **The combined year-end fund balance remaining from these budgets totaled \$142,593.**

District Administration

Total Administration Budget: \$122,708

District Administration expenditures in 1998 supported two staff positions. In addition, the administration budget provided support to all District activities, including: coordination of maintenance-related work for various projects (e.g., engineering design, permit applications, and coordination of crews and equipment), grant applications and management (e.g., Disaster Survey Reports for federal flood disaster projects, and Washington state's Flood Control Assistance Account Program (FCAAP); budget development and tracking; development of interlocal agreements; technical assistance to cities; preparation of the 1997 Annual Report; and ongoing coordination of BTC and BEC meetings.

Salaries:	\$73,481
Benefits:	15,810
Supplies:	902
Contract Services, Permits:	10,374
King County Services:	1,858
King County Overhead:	4,678
WLR Division Overhead:	79,590
TOTAL:	\$186,693
Budgeted Amount:	122,708
Total Expenditures:	186,693
Year-End Fund Balance:	(\$63,985)

ADMINISTRATIVE EXPENSES





District Maintenance

Total 1998 Maintenance Budget: \$550,943

Maintenance budget includes pump plant maintenance as well as river repair projects.

**SUMMARY OF
DISTRICT
MAINTENANCE
EXPENDITURES**

Pump Plant:	\$167,583
River Repair:	\$176,782
Total Maintenance Expenditures:	\$344,365
Total Maintenance Budget:	\$550,943
Total Maintenance Year End Fund Balance:	\$206,578

District pump plant maintenance expenditures in 1998 included one full-time employee to maintain and operate the Black River (P-1) and Tukwila (P-17) pump plants.

**PUMP PLANT
MAINTENANCE
EXPENSES**

Salaries:	\$68,401
Benefits:	18,247
Materials and Supplies:	22,283
Goods, Services, Maintenance Repairs:	52,851
King County Services:	5,801
TOTAL:	\$167,583
Budgeted Amount:	173,919
Total Expenditures:	167,583
YEAR END FUND BALANCE:	\$6,336

River Repair Maintenance expenditures in 1998 included repair of five District Facilities. The District was able to leverage its funds to collect significant financial contributions from supporting agencies such as FEMA, State Emergency Management, Army Corps of Engineers and local cities.

The total cost for major repairs was approximately \$1,070,416. The District was responsible for \$176,782 of that total.

**RIVER
REPAIRS
MAINTENANCE
EXPENSES**

Salaries:	\$298,532
Benefits:	78,071
Materials and Supplies:	182,479
Goods, Services, Maintenance Repairs:	408,277
King County Services:	103,058
WLR Division Overhead:	-
TOTAL:	\$1,070,416
Less Supporting Funds:	893,634
Cost to District:	176,782
District Budgeted Amount:	377,024
District Total Expenditures:	176,782
Year-End Total Fund Balance:	\$200,242

1998 YEAR-END FUND BALANCE

Designated Fund Balance

On July 19, 1993, the King County Council, acting as the Board of Supervisors for the District, passed Resolution No. GR1993-2 to set aside, or “designate,” \$94,230 from the undesignated District fund balance for two specific purposes:

- future use as a local match for federal and state grants in the event of a federally-declared flood disaster; and
- repair and replacement of equipment at the Green River pump stations.

Resolution No. GR1993-2 also established a process whereby \$50,300 in District funds would be set aside annually: \$11,000 for local flood match, and \$39,300 for pump plant equipment repair and replacement. These designations were consistent with the recommendation approved by the Green River Executive Committee on November 19, 1992, and are target figures based on annual District collections.

Flood match and pump repair designations to-date total \$75,607 and \$270,123 respectively for a combined total of \$345,730. (These totals include the 1998 levy contributions). These designations are consistent with Green River BEC and BTC recommendations in 1992 and Resolution No. GR1993-2, approved by the King County Council on July 19, 1993.

Undesignated Fund Balance

Additional District fund balance revenues beyond \$50,300 annually are to be used to supplement Green River maintenance activities. These funds and additional income such as that from interest or property sale are set aside in the undesignated fund for future District needs.





As shown by the table below, the District fund balance totaled \$832,763 at year-end. Of this amount, a total of \$345,730 has been designated for the flood and pump purposed stated above over the last five years. This leaves \$487,033 in undesignated fund balance. Portions of both the designated and undesignated fund balances may be used to supplement the 1999 maintenance budget pending approval by the King County Council convening as the District Board of Supervisors. Otherwise, these funds may be applied to the 2000 maintenance budget when that proposal is developed.

Overall need for river maintenance (i.e., damages assessed pursuant to federally declared flood disasters) within the District at the end of 1998 was roughly three million dollars. Both the undesignated fund balance and the fund balance designated for flood match provide an important means of supplementing the District's limited ability to complete necessary repair projects using only annual revenues. The District fund balance also provides additional flexibility to respond to future flood events and new requirements imposed by the Endangered Species Act for salmon recovery.

1998 FUND BALANCE

Adjusted 1997 Year-End Fund Balance:	\$670,209
1998 Activity:	
Unexpended Budget Authorization:	\$59,664
Interest Income:	49,772
Designated Fund Balance District Set Aside:	50,300
Undesignated Fund Balance District Set Aside:	11,077
Difference Between Projected and Actual Collections:	(8,259)
Adjusted 1998 Year-End Fund Balance:	\$832,763
FUND BALANCE SUMMARY:	
• Designated Fund Balance as of 12/31/98:	\$345,730
Designated Flood Match Funds	75,607
Designated Pump Equipment Funds	270,123
• Undesignated Fund Balance as of 12/31/98:	\$487,033
TOTAL FUND BALANCE AS OF 12/31/98:	\$832,763

The fund balance will help the District in this critical time of increasing expenses and decreasing Federal and State funding. The fund balance should enable the District to continue a repair program which addresses the backlog of existing facility damages (estimated to be \$11 million in repairs) in the "non-disaster" years when FEMA funds are not available. The fund balance dollars will also help to cover the increased cost of repairs due to new technology, increased environmental regulation, and inflation. Lastly, some of these dollars will be used to fund the additional project and programmatic reviews required by Endangered Species Act regulation, such as project monitoring of completed repair sites to ensure habitat elements are meeting performance standards.

1999 BUDGET

The 1999 Green River Flood Control Zone District budget was approved by the District Board of Supervisors (Metropolitan King County Council) on December 14, 1998 (Resolution GR22). The levy rate for 1999 is approximately 0.05 (\$0.05 per \$1,000 of assessed value). Based on this levy rate, 1998 collections are expected to total \$710,459. Per Resolution GR20, the District budget was broken down as follows:

Overhead and Administration:	\$213,052
District Maintenance:	
Pump Plant Operation:	216,873
River Facility Maintenance:	216,911
Undesignated Fund Balance (Reserve):	13,323
Designated Fund Balance:	
• Local Flood Match Funds:	11,000
• Pump Plant Repair/Maintenance:	<u>39,300</u>
Projected Collections:	\$710,459 *

*actual levy was raised to \$714,516 due to increase in property values per King County ordinance no. 13402

As shown above, the District budget authorized by Resolution GR22 specifies how projected revenue from the District levy will be disbursed. This resolution also specified that \$239,914 of the District's fund balance would be transferred from the fund balance to supplement the 1999 District Budget for programmatic and flood damage repair work. A total fund balance of \$345,730 was available for pump plant maintenance and river facility repair at the beginning 1999.





1999 GOALS

1999 Green River Basin Program and Green River Flood Control Zone District work program goals include the following:

- BTC development of a final high priority maintenance project list by May, 1999.
- Construction of the remaining high priority DSR projects to repair damages from the November-December 1995 and February 1996 flood events.
- Staff 1999 Flood Patrols and River Damage Assessments as needed.
- Continued implementation of the Post-Flood Recovery Plan and Flood Response Manual.
- Ongoing coordination of monthly BTC meetings.
- Ongoing coordination of BEC meetings.
- Staffing and facilitation for the coordination of the Green/Duwamish Watershed Forum with the Green River Basin Program.
- Staffing and facilitation for the coordination of the WRIA9 Steering Committee with the GRPB.
- Initiate 3-year contract with the US Fish and Wildlife Service to monitor and assess fish impacts of District facilities and repairs.
- Complete 1st phase of FCAAP Grant funded Narita levee repair.
- Pursue FCAAP Grant funds for the second phase of the Narita repair.
- Completion of the 1998 Annual Report.
- Continued participation in interagency Levee Vegetation Management Committee.
- Continued communication with Boater Safety Advisory Committee and coordination of necessary Committee review of projects.
- Participation in a basinwide ESA response scoping and planning process.
- Oversee and facilitate ESA review of all proposed projects along with standard permitting and environmental review.
- Cooperation in the Green Duwamish Ecosystem Restoration Study efforts when appropriate.
- Support King County Rivers Section ESA evaluation of standard river maintenance and programs.
- Continue lead agency administrative and implementation functions for \$275,000 Community Development Block Grant for Desimone levee repair.

ENDANGERED SPECIES ACT (ESA)

The Endangered Species Act is changing the way we think about the design of river protection facilities. In March 1999 National Marine Fisheries Services (NMFS) listed Puget Sound Chinook as "Threatened" under the ESA which requires that District projects not "take" chinook. Take is defined as: killing or injuring the listed species or modifying its habitat in such a way that interferes with essential behavioral patterns including breeding,



feeding or sheltering. In 1999, Bull Trout are expected to be listed as threatened as well. District projects must now balance flood protection with maintaining the health of natural systems.



GREEN RIVER BASIN PROGRAM BASIN EXECUTIVE COMMITTEE (BEC)

1999 ROSTER

The Honorable Charles Booth, Mayor
City of Auburn
25 West Main Street
Auburn, WA 98001
(253) 931-3000

The Honorable John W. Rants, Mayor
City of Tukwila
6200 Southcenter Boulevard
Tukwila, WA 98188
(206) 433-1800

**The Honorable Ron Sims, King County
Executive**
400 King County Courthouse
516 Third Avenue
Mail Stop 4CX
Seattle, WA 98104
(206) 296-4040

The Honorable Jesse Tanner, Mayor
City of Renton
200 Mill Avenue South
Renton, WA 98055
(425) 235-2500

**The Honorable Christopher Vance,
Councilmember**
District #13
King County Council
1200 King County Courthouse
516 Third Avenue
Mail Stop 12CC
Seattle, WA 98104
(206) 296-1013

The Honorable James White, Mayor
City of Kent
220 Fourth Avenue South
Kent, WA 98032
(253) 859-3300





**GREEN RIVER BASIN PROGRAM
BASIN TECHNICAL COMMITTEE (BTC)
1999 ROSTER**

Ms. Christine Engler, Director
Mr. Dennis Dowdy, City Engineer
Mr. Tim Carlaw, Storm Drainage Engineer
Public Works Department
City of Auburn
25 West Main
Auburn, WA 98001
(253) 931-3010 FAX (253) 931-3053

Mr. Don Wickstrom, Director
Mr. Bill Wolinski, Environmental Engineering Supervisor
Mr. Gary Gill, City Engineer
Public Works Department
City of Kent
220 4th Ave. S.
Kent, WA 98032
(253) 859-3383 FAX (253) 859-3334

Ms. Lys Hornsby, Utility Systems Director
Mr. Ron Straka, Engineering Supervisor
Public Works Department
City of Renton
1055 S. Grady Wy
Renton, WA 98055
(425) 430-7332 FAX (425) 430-7241

Mr. Jim Morrow, Director
Mr. Ryan Larson, Sr. Surface Water Mgmt. Engineer
Public Works Department
City of Tukwila
6300 Southcenter Blvd.
Tukwila, WA 98188
(206) 433-0179 FAX (206) 431-3665

Ms. Pam Bissonnette, Director
Ms. Nancy Hansen, Manager
Mr. Dave Clark, Manager, Rivers Section
Ms. Sarah Ogier, Program Coordinator
Mr. Andy Levesque, Senior Engineer
King County Department of Natural Resources
Water and Land Resources Division
201 South Jackson St.
Seattle, WA 98104
(206) 296-6519
FAX (206) 296-0192

Green River Basin Program Coordination/ Technical Staff

Ms. Sarah Ogier, Program Coordinator (206)296-1906

Mr. Andy Levesque, Senior Engineer (206)296-8379

King County Department of Natural Resources

Water and Land Resources Division

201 South Jackson St.

Seattle, WA 98104

(206) 296-6519

FAX (206) 296-0192

Other Parties

Mr. Joe Henry, District Manager

Renton District Office

Natural Resources Conservation Service

935 Powell Ave. SW

Renton, WA 98055

(405) 764-3325

FAX (405) 764-6677

Mr. Noel Gilbrough, Project Engineer (206)764-3652 FAX(206)764-4470

Mr. Paul Cooke, Study Manager (206)764-3622

Mr. Pat Cagney, Study Manager/Biologist (206)764-3624

Engineering Planning Branch

Seattle District Office

U.S. Army Corps of Engineers

P.O. Box C-3755

Seattle, WA 98124-2255

(206) 764-3604

FAX (206) 764-6676

Annual Report Production

Ms. Sarah Ogier, Program Coordinator

Ms. Barbara Schantz, Financial Analyst

Ms. Sandy Kraus, Graphic Designer

King County Department of Natural Resources

Water and Land Resources Division

201 South Jackson Street

Seattle, WA 98104

(206) 296-6519

FAX (206) 296-0192

